

Agenda Item: I.A.9.

DATE: July 14, 2005

SUBJECT: Pellissippi State Technical Community College, Associates of Applied Science in Security Engineering with concentrations in Security Administration and Security Technician

ACTION RECOMMENDED: Approval

BACKGROUND INFORMATION: The proposed program in Security Engineering & Administration Technology (SEAT) addresses well-documented needs at the national, state and local levels. Local employers requested the development of the program and recommended the two concentrations to meet current and future need for trained security professionals.

The proposed program will complement and strengthen two existing A.A.S. degree programs. Electrical Engineering Technology and High Performance Computing will contribute courses. The graduate of the proposed program will qualify for entry level positions or career advancement in security-related fields. Local industry reports unfilled positions in the College's service area as needs for security professionals continue to expand. Area security representatives from the Tennessee Valley Authority, the FBI, the U.S. Department of Energy Office/Inspector General, Knoxville Police Department and the Smoky Mountain Chapter/American Society for Industrial Security approached Pellissippi State to develop a security program to meet local industry demands and also participated on the Ad Hoc Advisory Committee and provided extensive input and support for the development of this proposal.

PROPOSED START-UP DATE: Spring 2006

Commission staff has reviewed program proposals according to the academic standards adopted by the Commission on November 14, 2002. Each standard is referenced below.

1.1.20A MISSION: The proposed program is consistent with the role and scope of the mission by offering technical education, health and public safety programs to citizens within their service area.

1.1.20B CURRICULUM: The proposed curriculum requires completion of 60 semester hours. As a new major there are 13 courses required to be developed. Programs in Electrical Engineering Technology and High Performance Computing will contribute courses. The curriculum requirements are distributed as follows:

<u>Curriculum Components</u>	<u>Credit Hours</u>
General Education	15
Major Field Core	13
Concentration	<u>32</u>
TOTAL:	60

1.1.20C ACADEMIC STANDARDS: Admission, Retention, and Graduation Requirements are consistent with those stated in the College Catalog & Handbook.

Projected Program Productivity

Student Projections	Full-time Enrollment	Part-time	Graduates
Year 1	10	15	0
Year 2	25	20	0
Year 3	35	30	5

1.1.20D FACULTY: One additional faculty position will be required to implement the proposed program. This full-time faculty member will serve as program coordinator. Title III funds are designated to support this faculty member's full salary in the first year of program operation. The College is committed to a gradual assumption of salary expense in years two and three and will fully assume the cost in year four. Full-time faculty in the College's EET and HPC programs will also teach courses in the SEAT program.

1.1.20E LIBRARY RESOURCES: Faculty working with the College's Library Acquisitions Coordinator estimate that \$6,400 in new acquisitions (\$5,000 for books, \$200 for periodicals and \$1200 for database resources) will be required to support the proposed program in the first year of operation.

1.1.20F ADMINISTRATION/ORGANIZATION: The proposed degree program will have a Program Coordinator who reports to the Department Head of Engineering & Media Technologies where the program will be housed.

1.1.20G SUPPORT RESOURCES: None indicated

1.1.20H FACILITIES/INSTRUCTIONAL EQUIPMENT: No additional space or renovations are required.

1.1.20I STUDENT/EMPLOYER DEMANDS: The events of September 11, 2001, forced different approaches to personal security, travel and safety. As homeland security has become a growing issue, heightened security concern is driving the demand for technology to meet the needs of a nation to feel safe again. New technology demands create the need for workers to be familiar with the new technical applications and requirements. The Bureau of Labor Statistics reports faster than average growth for security-related positions through 2012. Local industry reports unfilled positions in the College's service area as needs for security professionals continue to expand. A sample of local employers was surveyed in spring 2005 to

determine the employment potential for graduates of the proposed program. Eight of ten respondents reported a need for additional formal training for existing security management and/or technical personnel, and respondents further indicated a growing need for new hires in one or both employment categories (administrative and technical) over the next five years. Current students also expressed significant interest in the program. In spring 2005, a sample of 41 students enrolled in career/technical courses was surveyed to determine their level of interest in the proposed program. Eighty-three percent indicated that they were or might be interested in the degree program if it were offered; nearly 85 percent expressed interest in taking some of the courses in the proposed program. The types of positions available for graduates in this and similar programs include:

Computer Security Manager	Investigator	Security Director
Director, Safety & Security	Manager, Security Department	Security Guard
Information Security Officer	Personal Security Specialist	Security Specialist
Inspector	Regional Security Officer	Security Supervisor
Installer	Safety Officer	Security Systems Technician
Investigative Aide	Security Coordinator	Senior Security Specialist

1.1.20J NO UNNECESSARY DUPLICATION: There are no similar programs or concerns of duplication within the service area.

1.1.20K COOPERATIVE INSTITUTIONS: None indicated

1.1.20L DESEGREGATION: The program will not impede the state's effort to achieve racial diversity.

1.1.20M ASSESSMENT/EVALUATION AND ACCREDITATION: The success and productivity of the proposed program will be based on the annual placement rates of graduates, student evaluations, performance funding program review, Academic Audits, and feedback from Program Advisory Committee. The progress of the program will be measured by the number of graduates in that become gainfully employed or continue their academic studies. Alumni surveys would be used for evaluating the success of the degree program. There is no program accreditation agency or SACS implication for the proposed program.

1.1.20N ARTICULATION: Based on preliminary discussions with personnel from both institutions, APSU and UTM are exploring the possibility of establishing articulation agreements with the Security Engineering and Administration Technology and the Criminal Justice concentration in Homeland Security. They are also working with VSCC to develop similar articulation plans.

1.1.20O EXTERNAL JUDGMENT (Graduate Programs): N/A

1.1.20P COST/BENEFIT/SOURCE: Title III funds were secured to support first three years of the proposed program. These funds will cover the \$87,072 needed for additional instructional equipment to support this program. This equipment also will be used in other engineering technology programs. An operating budget of \$5,000 has been estimated for instructional supplies and other program/faculty needs. Since

students would not be admitted until spring 2006, half of that amount is listed for 2005-2006.

Area professionals report that existing education and training programs are inadequate to meet demands for personnel for the growing number of security jobs. Demand for security related positions continues due to lack of trained personnel for security alarms installation, and facilities protection for personnel and information systems. The availability of this type of needed training opportunity in East Tennessee outweighs the minimum associated costs.

FINANCIAL PROJECTIONS:

	Year 1	Year 2	Year 3	Year 4	Year 5
<u>Expenditures</u>					
A. One – time:					
New/renovated space					
Equipment		\$40,000			
Library	\$6,400				
Consultants					
Other					
Total for One-time Expenditures	\$6,400	\$40,000			
B. Recurring:					
Administration					
Faculty/Program Coordinator					
Staff	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
Benefits	\$28,000	\$28,000	\$28,000	\$28,000	\$28,000
Equipment	\$24,960	\$24,960	\$24,960	\$24,960	\$24,960
Library					
Travel					
Other (Operating Cost)	\$ 5,380	\$330	\$330	\$330	\$330
	\$2,500	\$5,000	\$5,000	\$5,000	\$5,000
Total for Recurring Expenditures	\$110,840	\$108,290	\$108,290	\$108,290	\$108,290
TOTAL (A + B)	\$117,270	\$148,290	\$108,290	\$108,290	\$108,290
<u>Revenues</u>					
State appropriations(new FTE)					
*State appropriations (old)	\$57,600	\$57,600	\$57,600	\$57,600	\$57,600
Tuition/Fees	\$15,554	\$33,330	\$47,773	\$59,994	\$67,771
Institutional Resources					
Grants/Contracts (Title III)	\$ 78,000	\$94,897	\$59,056		
TOTAL REVENUES	\$151,154	\$185,827	\$164,429	\$117,594	\$125,371

*Includes salary and benefits reallocated from planned retirement. Note: Increases in the rate of inflation, salaries and benefits and tuition and fees have not been accounted for in these projections.

1.1.30 POST APPROVAL MONITORING: An annual performance review of the proposed program will be conducted for the three years following approval. The review will be based on goals established in the approved program proposal.